Division: **Rajarajeshwarinagara** Sub-Division: **Yeshwanthpura sub division**

Bill Received No: 284/14-15 Dated 31.7.14 | Divisional / Sub Divisional | Cash Book Voucher No…….. Dated……

Work Code: 016-14-000030

Schedule Docket No. Head of Account: Est.Cost: 8.00 Lakhs D.R.No. :

Name of Work (as per sanctioned estimate: **Drilling of borewell and erecting pump and motor and providing MWS near Mother Teresa school at Jalahalli.**

Name of Contractor and Full Address: **The Technical manager, Karnataka Rural infrastructure development ltd., 3 BBMP Zone & Projective (South/RRNagara/BDA) #169/4, 4th main, Prashanthangara, Bangalore-79.**

Reference to Agreement No.EE/RRND/WO/33/2014-15 Date: 20.6.14

Certified that the measurements were taken by me on 18/7/14 and recorded of Pages 181/09 of measurement Book No. 1812 and that the work is satisfactorily executed. 181/19

Contractor **Officer-in-charge of work**

Assistant Executive Engineer-5 (RR Nagara)
KRIDL, BBMP, Bangalore

Certified that the measurement were taken by me on 18/7/14……and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

II Memorandum of Payment

		Amount
1)	Total value of work done or supplies made as per account within	
2)	Deduct amount to be held in reserve being ……percent Rs……	
3)	" Balance	
4)	Deduct Payment:	
	a. Amount of previous payment as in the Office Cash Book Voucher No……Dated……S.D. No……..… adjusted towards cash advance recovery of	
	b. Payments Now made { cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	
5)	Balance being unpaid value of work done held in reserve.	
6)	Deduct cash advance made on the Office cash Book Voucher No…… dated……less adjustments.	
7)	Net amount due to or from Contractor unadjustments items.	
8)	Advance to Contractor for materials brought to site (as detailed) within.	
9)	Value of Government materials supplied.	
	Total amount adjusted -	

Asst. Executive Engineer
Yeshwanthpura Sub-Division
Bruhat Bangalore Mahanagara Palike

Bill Amt Rs. 8,71,040=00
IT - 17,943=00
KST - 34,842=00
FSD - 52,262=00
L.Cess - 8,710=00
CRF - 900=00
Adj: 1,14,657=00
Net payt 7,56,383=00

Contractor's Signature

Received Rs…….. (in words)……
……
by cash and by adjustment of Payment as per memorandum

Assistant Executive Engineer-5 (RR Nagara)
KRIDL, BBMP, Bangalore

(in final settlement of all demands) (For use in the Office)

Witness
1.
2.

Assistant Executive Engineer-5 (RR Nagara)
KRIDL, BBMP, Bangalore

Dated Signature of Contractor

Paid by me by Cheque No……Dated……
Cash Rs……
Dated……

Initials of Officer making payment

Stamp

Admitted Rs. 8,71,040=00
Cheque Rs. 7,56,383=00
Seven lakh fifty six thousand three hundred is eighty three only.
Adjustment Rs 1,14,657=00

Executive Engineer

for K. Gowda

Case Worker | Accounts Superintendent | Executive Engineer

1	hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting venner or schlumbergers's method, incl reconnaissance survey of geological formation, Geological investigation of existing ground water in vicinity, its qu quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and oth information required including transportation of instrument and accessories to work site, engaging technical perso and labour required etc	
2	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abov in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complet including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) (P.NO-47, I.NO-9.1, PRED 12-13 SR)0 to 50 m	
	0.00 to 50 m	
	50 to 100 m	
	100 to 150 m	
	150 to 200 m	
	250 to 270 m	
3	Supplying of ISI Mark 175 mm nominal bore medium black ERW casing pipe of 5mm thick black electric resistance continous welded midle steel tube material confirming to IS 1387/1993 and manufactured from hot rolled steel skelp/stripes in random length of 4 to 7 mtr both ends threaded confirming to IS 554/1985 one end(including of all taxes)	Rm
4	Providing and fixing 250mm dia PVC pipe and as per specification and directions.	rmt
5	175 mm dia M.S. Casing cap	Each
6	M.S. Casing pipe collars 'C' Class	Each
7	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 15.000 HP 25 stage (P.NO-XXXXIII, I.NO-33, PWD SR 13-14) 15 HP 30 Stage	
8	Providing, laying & jointing GI pipes confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc,. complete 'A' grade(excluding cost of fittings)b50mm dia GI pipe (SR 13-14 PWD, P.No.XVII Sl.no. 509)	No
9	Providing & fixing heavy duty collar (P.NO-III, I.NO-86, PRED 12-13 SR)	Rmtr
10	Supplying and drawing 3 core PVC Sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS: 8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 volts 4 sqmm of 56 strands 0.3mm dia (P.NO-535, I.NO-30 (c), BWSSB 12-13 SR)	no
11	Supplying & delivery at site brand new / Essen / Lotus sunsines/Adarsh/ Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc,. completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 15.00 HP with star delta starter (MR)	Mtr
12	Fabricating supplying and mounting MS box of 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better hear description, (providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc,. complete box of 21600 sq.cm (P.NO-530, I.NO-39 b, BWSSB SR 13-14)	No.
13	Providing & Fixing of clamps set and borewell cap to the pump (MR)	Sqm
14	Supplying & delivery of brand new best make non return valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark (50mm Gate wheel Valve. (PWD SR 13-14, P.NO.XXIV, Sl.no, 673)	no
15	Supplying and delivery of brand new best make Gate Valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark . 50mm Gate Valve for distributer pipeline. 50mm dia (PWD SR 13-14, P.NO.XXIV, Sl.no, 659)	no
16	Providing and fixing of 50mm GI bend to motor (PWD SR 13-14, P.NO.XXXVIII GI FITTINGS TABLE)	No's
17	Providing and fixing of 50mm GI Nipple to motor (PWD SR 13-14, P.NO.XXXVIII GI FITTINGS TABLE)	No's
18	Providing and fixing of 50mm GI union to the motor ((PWD SR 13-14, P.NO.XXXVIII GI FITTINGS TABLE)	No's
19	Labour Charges for end connection (MR)	No's

-	-	1	1938.46	**1938.00**	1.00	1938.00
-	-			**0.00**	0.00	0.00
-	-	50.00	315.18	**15759.00**	50.00	15759.00
-	-	50.00	412.00	**20600.00**	50.00	20600.00
-	-	50.00	458.35	**22918.00**	50.00	22918.00
-	-	50.00	484.10	**24205.00**	50.00	24205.00
-	-	50.00	560.32	**28016.00**	50.00	28016.00
		20.00	600.49	**12010.00**	20.00	12010.00
-	-	70	1364.75	**95533.00**	70.00	95533.00
-	-	5.00	1133.00	**5665.00**	5.00	5665.00
-	-	1	103.00	**103.00**	1.00	103.00
-	-	9	154.50	**1391.00**	9.00	1391.00
-	-	1	75541.17	**75541.00**	1.00	75541.00
-	-	260	340.26	**88468.00**	260.00	88468.00
-	-	44	159.00	**6996.00**	44.00	6996.00
-	-	550	164.29	**90360.00**	550.00	90360.00
-	-	1	14800.00	**14800.00**	1.00	14800.00
-	-	22000	0.34	**7480.00**	22000.00	7480.00
-	-	1	690.00	**690.00**	1.00	690.00
-	-	3	1696.00	**5088.00**	3.00	5088.00
-	-	3	1213.70	**3641.00**	3.00	3641.00
-	-	3	232.14	**696.00**	3.00	696.00
-	-	3	110.56	**332.00**	3.00	332.00
-	-	3	237.12	**711.00**	3.00	711.00
-	-	1	400.00	**400.00**	1.00	400.00

21	Erection of combined panel board meter board with all necessary materials and labour including providing CC foundation bed etc,. Complete for basement out door type. (MR)	
22	Supplying and fixing miniature circuit breakers/isolators in existing MCB distribution boards using necessary materials and wiring complete as required, 40 to 63 Amps DP (P.NO - 526, I.NO - 13D (a), BWSSB SR 13-14)	
23	Supplying and laying of L.T.U.G Cable having aluminiumconductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable (confirming to IS 1554) (P.NO - 553, I.NO - 10 (d), BWSSB SR 13-14)	
24	Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc. Complete sutting road surfaces (P.NO - 554, I.NO - 12 (b), BWSSB SR 13-14)	
25	Supplying and fixing Class-A GI Pipe on pole/ wall/drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm (P.NO - 555, I.NO - 15 (b), BWSSB SR 13-14)	
26	Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit,/ the pit should be filled with equal proportion of salt and charocal 150 mm alround the pipe to complete depth the connections from the pipe to the conduit etc,. is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 122mm dia (P.NO - 552, I.NO - 7 , BWSSB SR 13-14)	
27	Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmmUG cable filled with necessary bitumen/ insulating compound complete with terminals, clamps, bolts nuts and washers etc, (P.NO - 555, I.NO - 16 (b) , BWSSB SR 13-14)	
28	Supplying shunt capacitor's confirming to IS 2834, 3phase 400/440 volts grade for power factor improvement of roating machinery capacitor in KVAR rating No's. (MR)	No's
29	Providing and fixing Gun Metal Gate wheel valve confirming to IS specification of approved make as per direction including all lead and lift etc,. Complete. 50mm dia (P.NO - 103, I.NO - 13.79.6, PWD SR 13-14)	No's
30	Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides with planks made out on not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc., Size 20 x 20 x 2.5 inches (P.NO - 521, I.NO - 2 (f), BWSSB SR 13-14)	No's
31	KPTCL charges	No's
32	Providing and laying reinforced cement concrete pipe NP3 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications.	mtr
33	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.	cum
34	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57 cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	cum
35	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.	cum
36	KSRB 5.3-1 Providing and constructing granite / trap / basalt size stone masonry in **basement** with mud mortar, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.	cum
37	KSRB-4-1.1 : Providing and laying in position plain cement concrete of **mix M15 with OPC cement @ 240 kgs with 40mm** and down size graded granite metal coarse aggregares @ 0.878 cum and fine aggregates @ 0.459 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	cum
38	KSRB 15.1.1: Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.	Sqm
39	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete.	no
40	Elbow	no
41	Tee	no
42	Union	no
43	Nipple	no
44	KSRB 13-6.3.1: Providing and fixing in position brass gate valve with C.I. wheel of approved quality (screwed end) 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.	Each

-	-	1	475.00	**475.00**	1.00	475.00
-	-	1	906.40	**906.00**	1.00	906.00
-	-	30	169.95	**5099.00**	30.00	5099.00
-	-	30	56.65	**1700.00**	30.00	1700.00
-	-	10	294.58	**2946.00**	10.00	2946.00
-	-	1	1699.50	**1700.00**	1.00	1700.00
-	-	1	271.92	**272.00**	1.00	272.00
-	-	1	1350.00	**1350.00**	1.00	1350.00
-	-	3	1515.80	**4547.00**	3.00	4547.00
-	-	1	311.58	**312.00**	1.00	312.00
		1	15000.00	**15000.00**	1.00	15000.00
-	-	2.50	9087.12	**22718.00**	2.50	22718.00
-	-	1.69	227.88	**385.00**	1.69	385.00
-	-	2.05	4290.84	**8796.00**	2.05	8796.00
-	-	1.35	3549.96	**4792.00**	1.35	4792.00
-	-	1.35	4227.12	**5707.00**	1.35	5707.00
-	-	2.05	4779.00	**9797.00**	2.05	9797.00
-	-	3.60	79.92	**288.00**	3.60	288.00
-	-	30	267.84	**8035.00**	30.00	8035.00
-	-	6	111.80	**671.00**	6.00	671.00
-	-	6	169.00	**1014.00**	6.00	1014.00
-	-	7.00	223.70	**1566.00**	7.00	1566.00
-	-	6.00	104.30	**626.00**	6.00	626.00
-	-	2.00	1493.00	**2986.00**	2.00	2986.00

45	convaying laying and jointing etc., complete inclusive of fixing 4 nos of 20mm dia GI pipes with taps to the cistern.		
46	Erection of RCC Hume pipe pump house / cistern on size stone masnry platform including tranportation charges and handing with all necessary tools and plants complete as directed by the Engineer in charge of work		
47	Earthwork excavation for foundation of buildings water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.		
48	Providing and installing at site of work P.V.C pipees including cost of pipes and specials and labour including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not leass than 15 cms with gravel or selected earth available from the excavation etc., complete PVC pipes of 6kg/Sqm 75mm Dia.		
49	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications		cu
		Total	
		KRIDL CHARGES	
		Grand total	

Certificate

1 Certified that the above work done satisfactory and no materials issued from departmentally

Asst. Executive Engineer
Yeshwanthpura Sub-Division
Bruhat Bangalore Mahanagara Palike

K.R.I.D.L

	-	1.00	1388.00	**1388.00**	1.00	1388.00
	-	1.00	1220.00	**1220.00**	1.00	1220.00
	-	263.25	227.88	**59989.00**	263.25	59989.00
	-	585.00	157.00	**91845.00**	585.00	91845.00
	-	263.25	59.36	**15627.00**	263.25	15627.00
	-			**799716.00**	784721	**799721.00**
	-			**87969**	86319	**87969**
	-			**887685**		**887690**

8,71,040 = or

784721
86319.
8,71,040rr